

COC. # 21B

CHAIN OF CUSTODY REPORT

Work Order #: M105025

CLIENT: Bristol
REPORT TO: Anne Krauswetter
ADDRESS: Amchitka
PHONE: 770-0974 FAX: 770-0975

INVOICE TO: Bristol Enviro. & Engineering

P.O. NUMBER: 21090

PROJECT NAME: Amchitka
PROJECT NUMBER: 21090
SAMPLED BY: Anne/Charlie

REQUESTED ANALYSES

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PCBs	EPA 8082	Metals	BOD	TSS	Fecal Coliform	DO & Ph.										
1. 01AMTE03SW	5/22/01 0830	X	X	X	X	X	X	X										
2.																		
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		
11.																		
12.																		
13.																		
14.																		
15.																		

TURNAROUND REQUEST in Business Days*

Organic & Inorganic Analyses

10 7 5 4 3 2 1 <1

STD.

Petroleum Hydrocarbon Analyses

5 4 3 2 1 <1

STD.

Please Specify

OTHER

*Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
W	10		

RELINQUISHED BY: Charlie Marshall
PRINT NAME: Charlie Marshall FIRM: Bristol

DATE: 5/22/01
TIME: 0910

RECEIVED BY: MUSTAHSAN R. FAROOQUI
PRINT NAME: MUSTAHSAN R. FAROOQUI FIRM: NCA

DATE: 5-22-01
TIME: 9:11am

RELINQUISHED BY:
PRINT NAME: FIRM:

DATE:
TIME:

RECEIVED BY:
PRINT NAME: FIRM:

DATE:
TIME:

ADDITIONAL REMARKS:

COC REV 3/99 ~~Hand~~ 3 Sample / Test As per Sampling & Analysis Plan

TEMP:

PAGE OF



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
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541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 05/22/01 09:11. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M105025



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/29/01 18:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTE03SW	M105025-01	Water	05/22/01 08:30	05/22/01 09:11

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/29/01 18:06

Polychlorinated Biphenyls per EPA Method 8082
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE03SW (M105025-01) Water					Sampled: 05/22/01		Received: 05/22/01		A-01
Aroclor 1016	ND	0.200	ug/l	1	EPA 8082	05/21/01	05/23/01	0105032	
Aroclor 1221	ND	0.400	"	"	"	"	"	"	
Aroclor 1232	ND	0.200	"	"	"	"	"	"	
Aroclor 1242	ND	0.200	"	"	"	"	"	"	
Aroclor 1248	ND	0.200	"	"	"	"	"	"	
Aroclor 1254	ND	0.200	"	"	"	"	"	"	
Aroclor 1260	ND	0.200	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	51.4 %	44-119							
Surr: Decachlorobiphenyl	71.5 %	54-128							

North Creek Analytical - Mobile Lab

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/29/01 18:06

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMTE03SW (M105025-01) Water

Sampled: 05/22/01 Received: 05/22/01

Arsenic	0.00740	0.00500	mg/l	1	EPA 6020	05/22/01	05/24/01	0105041	
Chromium	ND	0.00500	"	"	"	"	"	"	
Lead	0.0132	0.00500	"	"	"	"	"	"	
Selenium	ND	0.00500	"	"	"	"	"	"	
Mercury	ND	0.0000100	"	"	EPA 1631	05/22/01	05/23/01	0105049	
Silver	ND	0.00100	"	"	EPA 7000	05/23/01	05/24/01	0105048	

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/29/01 18:06

Conventional Chemistry Parameters per APHA/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE03SW (M105025-01) Water						Sampled: 05/22/01 Received: 05/22/01			
Biochemical Oxygen Demand	ND	4.00	mg/l	1	EPA 405.1	05/23/01	05/28/01	0105052	Q-12
Dissolved Oxygen	4.20	1.00	"	"	EPA 360.1	05/22/01	05/22/01	0105038	
pH	6.59	0.100	pH Units	"	EPA 150.1	05/22/01	05/22/01	0105039	
Total Suspended Solids	ND	10.0	mg/l	"	EPA 160.2	05/22/01	05/22/01	0105042	

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/29/01 18:06

Microbiological Parameters per APHA Standard Methods

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMTE03SW (M105025-01) Water

Sampled: 05/22/01 Received: 05/22/01

E. Coli	ND	2.00MPN/100 ml	1		SM 9221	05/22/01	05/23/01	0105043	
Total Coliforms	ND	2.00	"	"	"	"	"	"	

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Bristol Environmental & Engineering	Project: Amchitka	
2000 W International Airport C#1	Project Number: 21090	Reported:
Anchorage, AK 99502-1116	Project Manager: Anne Kranawetter	05/29/01 18:06

Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105032 - 3520B Liq-Liq

Blank (0105032-BLK1) Prepared: 05/22/01 Analyzed: 05/23/01 **A-01**

Aroclor 1016	ND	0.200	ug/l							
Aroclor 1221	ND	0.400	"							
Aroclor 1232	ND	0.200	"							
Aroclor 1242	ND	0.200	"							
Aroclor 1248	ND	0.200	"							
Aroclor 1254	ND	0.200	"							
Aroclor 1260	ND	0.200	"							

Surr: 2,4,5,6-Tetrachloro-m-xylene 0.954 " 1.00 95.4 44-119

Surr: Decachlorobiphenyl 1.28 " 1.00 128 54-128

LCS (0105032-BS1) Prepared: 05/22/01 Analyzed: 05/23/01 **A-01**

Aroclor 1254	2.76	2.00	ug/l	2.50		110	47-155			
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	0.866		"	1.00		86.6	44-119			
<i>Surr: Decachlorobiphenyl</i>	1.23		"	1.00		123	54-128			

LCS Dup (0105032-BSD1) Prepared: 05/22/01 Analyzed: 05/23/01 **A-01**

Aroclor 1254	2.73	2.00	ug/l	2.50		109	47-155	1.09	50	
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	0.856		"	1.00		85.6	44-119			
<i>Surr: Decachlorobiphenyl</i>	1.13		"	1.00		113	54-128			

Matrix Spike (0105032-MS1) Source: M105025-01 Prepared: 05/22/01 Analyzed: 05/23/01 **A-01**

Aroclor 1254	1.11	0.800	ug/l	2.50	ND	44.4	50-150			Q-02
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	0.360		"	1.00		36.0	44-119			S-09
<i>Surr: Decachlorobiphenyl</i>	0.498		"	1.00		49.8	54-128			S-09

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/29/01 18:06

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105041 - EPA 200/3005

Blank (0105041-BLK1)

Prepared: 05/22/01 Analyzed: 05/24/01

Arsenic	ND	0.00500	mg/l
Chromium	ND	0.00500	"
Lead	ND	0.00500	"
Selenium	ND	0.00500	"

LCS (0105041-BS1)

Prepared: 05/22/01 Analyzed: 05/24/01

Arsenic	0.239	0.00500	mg/l	0.200	119	80-120	
Chromium	0.217	0.00500	"	0.200	108	80-120	
Lead	0.216	0.00500	"	0.200	108	80-120	
Selenium	0.240	0.00500	"	0.200	120	75-115	Q-02,A-01b

Duplicate (0105041-DUP1)

Source: M105025-01

Prepared: 05/22/01 Analyzed: 05/24/01

Arsenic	0.00714	0.00500	mg/l	0.00740	3.58	20	
Chromium	ND	0.00500	"	ND		20	
Lead	0.0128	0.00500	"	0.0132	3.08	20	
Selenium	ND	0.00500	"	ND	55.3	20	Q-05

Matrix Spike (0105041-MS1)

Source: M105025-01

Prepared: 05/22/01 Analyzed: 05/24/01

Arsenic	0.256	0.00500	mg/l	0.200	0.00740	124	75-125
Chromium	0.214	0.00500	"	0.200	ND	107	75-125
Lead	0.224	0.00500	"	0.200	0.0132	105	75-125
Selenium	0.238	0.00500	"	0.200	ND	119	75-125

Batch 0105048 - Metals

Blank (0105048-BLK1)

Prepared: 05/23/01 Analyzed: 05/24/01

Silver	ND	0.00100	mg/l
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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/29/01 18:06

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105048 - Metals

LCS (0105048-BS1)

Prepared: 05/23/01 Analyzed: 05/24/01

Silver	0.0333	0.00100	mg/l	0.0385	86.5	80-120			
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Duplicate (0105048-DUP1)

Source: M105025-01

Prepared: 05/23/01 Analyzed: 05/24/01

Silver	ND	0.00100	mg/l	ND			20		
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Matrix Spike (0105048-MS1)

Source: M105025-01

Prepared: 05/23/01 Analyzed: 05/24/01

Silver	0.0286	0.00100	mg/l	0.0385	ND	74.3	75-125		Q-02
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Batch 0105049 - EPA 1631

Blank (0105049-BLK1)

Prepared: 05/22/01 Analyzed: 05/23/01

Mercury	ND	0.0000100	mg/l						
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LCS (0105049-BS1)

Prepared: 05/22/01 Analyzed: 05/23/01

Mercury	0.000135	0.0000100	mg/l	0.000125	108	85-115			
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Duplicate (0105049-DUP1)

Source: M105025-01

Prepared: 05/22/01 Analyzed: 05/23/01

Mercury	ND	0.0000100	mg/l	ND			20		
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Matrix Spike (0105049-MS1)

Source: M105025-01

Prepared: 05/22/01 Analyzed: 05/23/01

Mercury	0.000125	0.0000100	mg/l	0.000125	ND	100	75-125		
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North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/29/01 18:06

Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105038 - Wet Chem

Blank (0105038-BLK1)

Prepared & Analyzed: 05/22/01

Dissolved Oxygen	9.12	1.00	mg/l
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Batch 0105039 - Wet Chem

Duplicate (0105039-DUP1)

Source: M105025-01

Prepared & Analyzed: 05/22/01

pH	6.59	0.100	pH Units	6.59	0	200
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Batch 0105042 - Wet Chem

Blank (0105042-BLK1)

Prepared & Analyzed: 05/22/01

Total Suspended Solids	ND	10.0	mg/l
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LCS (0105042-BS1)

Prepared & Analyzed: 05/22/01

Total Suspended Solids	120	10.0	mg/l	122	98.4	80-120
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Duplicate (0105042-DUP1)

Source: M105025-01

Prepared & Analyzed: 05/22/01

Total Suspended Solids	ND	10.0	mg/l	ND	11.8	20
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Batch 0105052 - Wet Chem

Blank (0105052-BLK1)

Prepared: 05/23/01 Analyzed: 05/28/01

Biochemical Oxygen Demand	ND	4.00	mg/l
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LCS (0105052-BS1)

Prepared: 05/23/01 Analyzed: 05/28/01

Biochemical Oxygen Demand	116	4.00	mg/l	198	58.6	75-125	A-01a
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Project Number: 21090
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05/29/01 18:06

Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105052 - Wet Chem

Duplicate (0105052-DUP1)

Source: M105025-01

Prepared: 05/23/01 Analyzed: 05/28/01

Biochemical Oxygen Demand	ND	4.00	mg/l		ND				40	Q-12
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Microbiological Parameters per APHA Standard Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105043 - Wet Chem

Blank (0105043-BLK1)

Prepared: 05/22/01 Analyzed: 05/23/01

E. Coli	ND	2.00	MPN/100 ml
Total Coliforms	ND	2.00	"

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network



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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/29/01 18:06

Notes and Definitions

A-01 Acceptance criteria for CCV are exceeded high. Sample results are non detect and not affected. DoD QSM Draft 5.9.4.2.E.1
A-01a LCS BOD at 58.6% of expected value. Results may have low bias.
A-01b The spike recovery for this control sample is outside the established control limit indicating that samples may have high bias.
Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
Q-12 None of the sample dilutions selected met the criteria of at least 2 mg/l dissolved oxygen depletion.
S-09 Surrogate recovery is outside control limits due to matrix interference.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
wet Sample results reported on a wet weight basis (as received)
RPD Relative Percent Difference

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			Report recreated from: \\sisters\elmnt\Report\M105025 FINAL 05 29 01 1806.mdb
0105032-BLK1	8082 PCB		A-01
0105032-BS1	8082 PCB		A-01
0105032-BSD1	8082 PCB		A-01
0105032-MS1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	S-09
0105032-MS1	8082 PCB	2,4,5,6-Tetrachloro-m-xylene	Exceeds lower control limit
0105032-MS1	8082 PCB	Aroclor 1254	Exceeds lower control limit
0105032-MS1	8082 PCB	Decachlorobiphenyl	Exceeds lower control limit
0105032-MS1	8082 PCB	Decachlorobiphenyl	S-09
0105032-MS1	8082 PCB		A-01
0105032-MS1	8082 PCB	Aroclor 1254	Q-02
0105038-BLK1	DO-360.1	Dissolved Oxygen	Blank >1 x MRL
0105041-BS1	Cd Total ICPMS 6020	Cadmium	A-01b
0105041-BS1	Cd Total ICPMS 6020	Cadmium	No true value
0105041-BS1	Se Total ICPMS 6020	Selenium	Exceeds upper control limit
0105041-BS1	Se Total ICPMS 6020	Selenium	Q-02
0105041-BS1	Se Total ICPMS 6020	Selenium	A-01b
0105041-DUP1	Cd Total ICPMS 6020	Cadmium	Q-05
0105041-DUP1	Cd Total ICPMS 6020	Cadmium	No source result for M105025-01
0105041-DUP1	Se Total ICPMS 6020	Selenium	Q-05
0105041-DUP1	Se Total ICPMS 6020	Selenium	Exceeds RPD limit
0105041-MS1	Cd Total ICPMS 6020	Cadmium	No source result for M105025-01
0105041-MS1	Cd Total ICPMS 6020	Cadmium	No true value
0105048-MS1	Ag Total 7000 Series	Silver	Exceeds lower control limit
0105048-MS1	Ag Total 7000 Series	Silver	Q-02
0105052-BS1	BOD-405.1	Biochemical Oxygen Demand	A-01a
0105052-BS1	BOD-405.1	Biochemical Oxygen Demand	Exceeds lower control limit
0105052-DUP1	BOD-405.1	Biochemical Oxygen Demand	Q-12
M105025-01	8082 PCB		A-01
M105025-01	BOD-405.1	Biochemical Oxygen Demand	Q-12